

ENGINEERING EXHIBIT

Request for Special Temporary Authorization prepared for

**Young Broadcasting of Sioux Falls Inc.
Debtor-In-Possession**
KPLO-TV Reliance, SD
Facility ID 41964
Ch. 13 40 kW 231 m

Young Broadcasting of Sioux Falls Inc., Debtor-In-Possession (“*Young*”), licensee of KPLO-TV (Ch. 13, Facility ID 41964, Reliance, SD) requests Special Temporary Authority (“STA”) to operate with an emergency antenna. KPLO-TV is currently licensed with 40 kW effective radiated power (“ERP”) and an antenna height above average terrain (“HAAT”) of 318 meters (BLCDT-20030519AER). The tower structure supporting the KPLO-TV main antenna recently collapsed during an ice storm and KPLO-TV is presently silent.

The tower structure’s former overall height above ground was 217 meters. *Young* has made arrangements to erect a temporary tower at the licensed transmitter site having an overall height above ground of 100.6 meters. The temporary tower will be placed on the same concrete pier foundation and employ the same guy wire anchor points employed by the tower which collapsed. The associated FCC Antenna Structure Registration (“ASR”) number is 1035406, and, out of an abundance of caution, *Young* has filed with the FAA a request for determination of no hazard for the temporary tower (FAA study# 2010-AGL-599-OE). The temporary tower will be marked and lighted consistent with the FAA’s recommendation.

It is proposed to side-mount an emergency antenna to the temporary tower structure. *Young* intends on rebuilding the main KPLO-TV facility at the same site, and the emergency antenna is intended to restore program service to the public until the temporary service must be interrupted to facilitate the rebuilding of the permanent facility.¹

¹ Separately, *Young* expects to file an Application for Construction Permit to consider changes that may be

The emergency antenna is a horizontally polarized directional transmitting antenna, Dielectric model THB-C2-2H/4UD-1-S. The antenna will be side-mounted on the temporary tower structure. The emergency antenna will achieve an ERP of 40 kW, requiring a transmitter power output of 5.9 kW. A summary of the emergency facility's technical specifications is supplied in **Table 1**. The directional antenna's azimuthal pattern is described in **Figures 1 and 1A**. **Figure 2** provides the theoretical vertical plane (elevation) pattern.

The emergency facility's 36 dBμ contour is nearly completely encompassed by that of the licensed KPLO-TV, as depicted in the attached **Figure 3**. Ordinarily, an STA facility's contour must be contained within that of the station's authorization. In this case, the STA contour extends slightly beyond the licensed contour to the northwest. Despite the ERP being the same as the licensed value (40 kW) and the antenna HAAT being reduced to 231 m (from the licensed 318 m), the use of a different directional antenna pattern results in a minimal contour extension. The area within the extension consists of 497.1 sq. kilometers and contains a population of 56 persons (2000 census). This is 1.95 percent of the area and 0.12 percent of the population (25,430.8 sq. km and 46,361 persons, respectively) that are within the proposed STA facility's 36 dBμ contour. Thus, given the antenna pattern difference and proposed orientation, the contour extension is not intended to expand the KPLO-TV service area but rather to restore as much service as possible with the temporary facility.

A detailed interference study per OET Bulletin 69² shows that the proposed STA facility complies with the 0.5 percent limit of new interference caused to pertinent nearby post-transition stations and their Appendix B facilities. The interference study output report is provided as **Table 2**. Protection requirements towards authorized Class A stations are also satisfied.

proposed regarding the rebuilt KPLO-TV main facility from licensed parameters, as the rebuilt facility's antenna height may be increased to utilize that previously employed by the top-mounted KPLO-TV analog Channel 6 antenna.

²FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. A standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission's implementation of OET-69 show excellent correlation.

Regarding RF exposure, calculations per FCC OET Bulletin Number 65 considering 20 percent antenna relative field in downward elevations show that the signal density near the tower at two meters above ground level attributable to the proposed facility is $6.0 \mu\text{W}/\text{cm}^2$, which is 3.0 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent. The applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

Certification

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.



Joseph M. Davis, P.E.
February 8, 2010

Chesapeake RF Consultants, LLC
11993 Kahns Road
Manassas, VA 20112
703-650-9600

List of Attachments

Table 1	STA Engineering Data
Figure 1, 1A	Antenna Azimuthal Pattern
Figure 2	Antenna Elevation Pattern
Figure 3	Coverage Contour Comparison
Table 2	OET Bulletin 69 Interference Study

Table 1
Engineering Data
Special Temporary Authority
prepared for
Young Broadcasting of Sioux Falls Inc.
Debtor-In-Possession
KPLO-TV Reliance, SD

Site Coordinates: (NAD-27)	N-Lat 43° 57' 57" W-Lon 99° 36' 11"
Channel:	13 (210-216 MHz)
Effective Radiated Power:	40 kW (16.02 dBk)
Antenna Radiation Center Height Above ground:	96.0 m
Above mean sea level:	758.0 m
Above average terrain:	230.8 m
Antenna Structure Registration number	1035406
Overall height above ground: (temporary tower)	100.6 m
Antenna:	Dielectric THB-C2-2H/4UD-1-S Gain 8.92 dBd Directional, Horizontal polarization
Transmission Line:	Andrew HJ11-50 4" coaxial 50 Ohm 350 feet length 0.61 dB loss
Transmitter Power Output:	5.9 kW (7.71 dBk)



Proposal Number

Date

7-May-01

Call Letters

Channel

7-13

Location

Customer

Antenna Type

THB-C2-2H/4UD-1-S

AZIMUTH PATTERN

Gain
Calculated / Measured

1.78

(2.50 dB)

Calculated

Channel

7-13

Drawing #

THB-C2-7-13

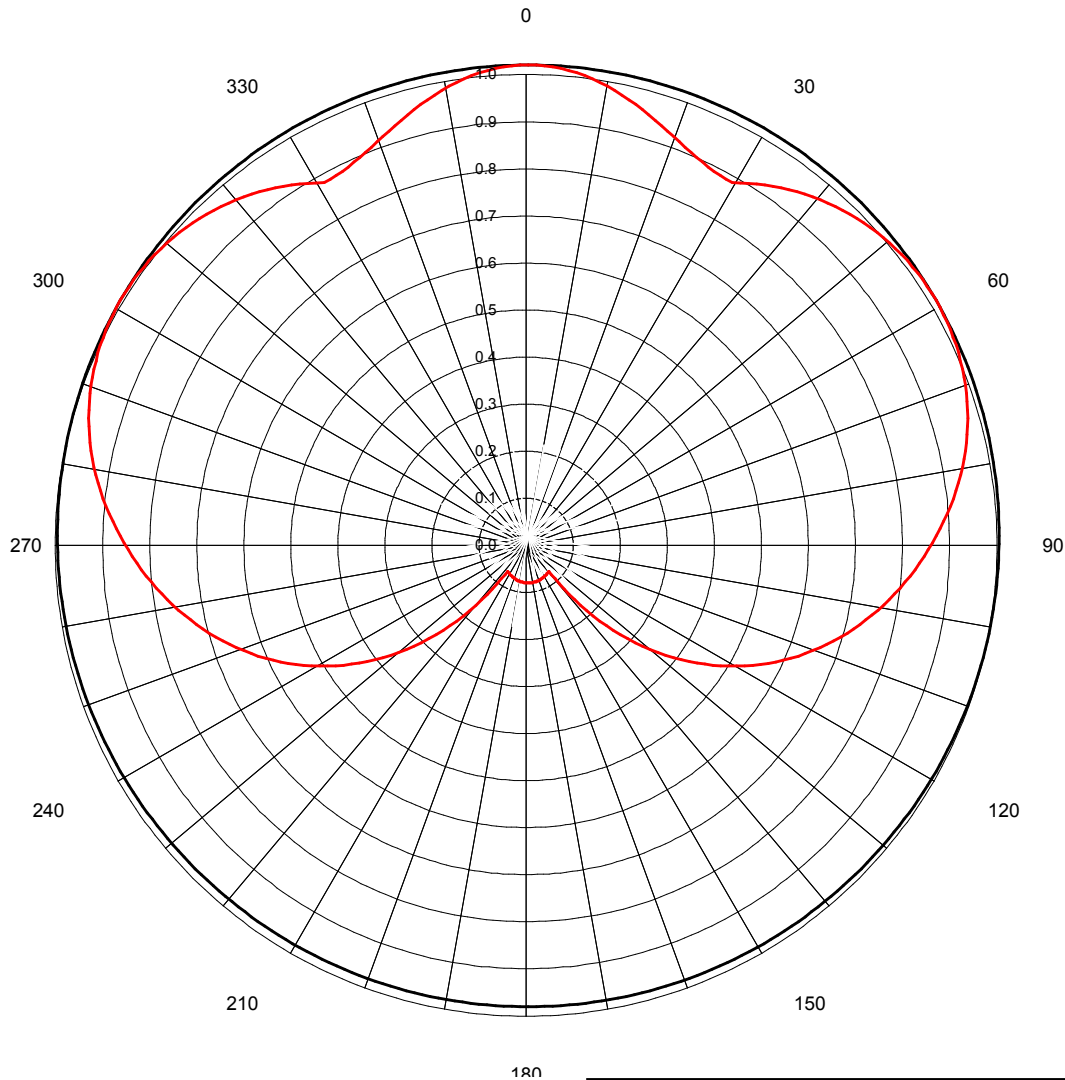


Figure 1
Antenna Azimuthal Pattern
Rotate Pattern to 300°
KPLO-TV Reliance, SD
Facility ID 41964
Ch. 13 40 kW 231 m

prepared for

Young Broadcasting of Sioux Falls Inc.
Debtor-In-Possession

February, 2010





Proposal Number

7-May-01

Call Letters

Channel

7-13

Location

Customer

Antenna Type

THB-C2-2H/4UD-1-S

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: THB-C2-7-13

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	1.000	45	0.966	90	0.866	135	0.321	180	0.100	225	0.321	270	0.866	315	0.966
1	1.000	46	0.970	91	0.858	136	0.304	181	0.100	226	0.338	271	0.875	316	0.961
2	0.999	47	0.974	92	0.850	137	0.287	182	0.100	227	0.354	272	0.883	317	0.956
3	0.997	48	0.978	93	0.842	138	0.270	183	0.100	228	0.370	273	0.891	318	0.951
4	0.995	49	0.982	94	0.833	139	0.253	184	0.100	229	0.387	274	0.899	319	0.946
5	0.992	50	0.985	95	0.825	140	0.236	185	0.100	230	0.403	275	0.906	320	0.940
6	0.988	51	0.988	96	0.816	141	0.219	186	0.100	231	0.418	276	0.914	321	0.934
7	0.984	52	0.990	97	0.807	142	0.202	187	0.099	232	0.434	277	0.920	322	0.927
8	0.980	53	0.993	98	0.798	143	0.185	188	0.099	233	0.449	278	0.927	323	0.920
9	0.975	54	0.994	99	0.788	144	0.168	189	0.099	234	0.464	279	0.934	324	0.914
10	0.969	55	0.996	100	0.779	145	0.152	190	0.098	235	0.479	280	0.940	325	0.906
11	0.963	56	0.998	101	0.769	146	0.136	191	0.098	236	0.494	281	0.946	326	0.899
12	0.957	57	0.999	102	0.760	147	0.121	192	0.098	237	0.508	282	0.951	327	0.891
13	0.951	58	0.999	103	0.750	148	0.108	193	0.097	238	0.522	283	0.956	328	0.883
14	0.944	59	1.000	104	0.739	149	0.096	194	0.097	239	0.536	284	0.961	329	0.875
15	10.000	60	1.000	105	0.729	150	0.087	195	0.097	240	0.550	285	0.966	330	0.866
16	0.930	61	1.000	106	0.719	151	0.087	196	0.096	241	0.563	286	0.970	331	0.866
17	0.923	62	0.999	107	0.708	152	0.088	197	0.096	242	0.577	287	0.974	332	0.867
18	0.916	63	0.999	108	0.697	153	0.089	198	0.095	243	0.590	288	0.978	333	0.869
19	0.909	64	0.998	109	0.686	154	0.090	199	0.095	244	0.603	289	0.982	334	0.872
20	0.902	65	0.996	110	0.675	155	0.091	200	0.094	245	0.615	290	0.985	335	0.875
21	0.896	66	0.994	111	0.663	156	0.091	201	0.093	246	0.627	291	0.988	336	0.879
22	0.890	67	0.993	112	0.651	157	0.092	202	0.093	247	0.640	292	0.990	337	0.884
23	0.884	68	0.990	113	0.640	158	0.093	203	0.092	248	0.651	293	0.993	338	0.890
24	0.879	69	0.988	114	0.627	159	0.093	204	0.091	249	0.663	294	0.994	339	0.896
25	0.875	70	0.985	115	0.615	160	0.094	205	0.091	250	0.675	295	0.996	340	0.902
26	0.872	71	0.982	116	0.603	161	0.095	206	0.090	251	0.686	296	0.998	341	0.909
27	0.869	72	0.978	117	0.590	162	0.095	207	0.089	252	0.697	297	0.999	342	0.916
28	0.867	73	0.974	118	0.577	163	0.096	208	0.088	253	0.708	298	0.999	343	0.923
29	0.866	74	0.970	119	0.563	164	0.096	209	0.087	254	0.719	299	1.000	344	0.930
30	0.866	75	0.966	120	0.550	165	0.097	210	0.087	255	0.729	300	1.000	345	0.937
31	0.875	76	0.961	121	0.536	166	0.097	211	0.096	256	0.739	301	1.000	346	0.944
32	0.883	77	0.956	122	0.522	167	0.097	212	0.108	257	0.750	302	0.999	347	0.951
33	0.891	78	0.951	123	0.508	168	0.098	213	0.121	258	0.760	303	0.999	348	0.957
34	0.899	79	0.946	124	0.494	169	0.098	214	0.136	259	0.769	304	0.998	349	0.963
35	0.906	80	0.940	125	0.479	170	0.098	215	0.152	260	0.779	305	0.996	350	0.969
36	0.914	81	0.934	126	0.464	171	0.099	216	0.168	261	0.788	306	0.994	351	0.975
37	0.920	82	0.927	127	0.449	172	0.099	217	0.185	262	0.798	307	0.993	352	0.980
38	0.927	83	0.920	128	0.434	173	0.099	218	0.202	263	0.807	308	0.990	353	0.984
39	0.934	84	0.914	129	0.418	174	0.100	219	0.219	264	0.816	309	0.988	354	0.988
40	0.940	85	0.906	130	0.403	175	0.100	220	0.236	265	0.825	310	0.985	355	0.992
41	0.946	86	0.899	131	0.387	176	0.100	221	0.253	266	0.833	311	0.982	356	0.995
42	0.951	87	0.891	132	0.370	177	0.100	222	0.270	267	0.842	312	0.978	357	0.997
43	0.956	88	0.883	133	0.354	178	0.100	223	0.287	268	0.850	313	0.974	358	0.999
44	0.961	89	0.875	134	0.338	179	0.100	224	0.304	269	0.858	314	0.970	359	1.000

Figure 1A
Antenna Azimuthal Pattern
Rotate Pattern to 300°
KPLO-TV Reliance, SD
Facility ID 41964
Ch. 13 40 kW 231 m

prepared for
Young Broadcasting of Sioux Falls Inc.
Debtor-In-Possession

February, 2010





Proposal Number

Date **7-May-01**

Call Letters

Channel **7-13**

Location

Customer

Antenna Type **THB-C2-2H/4UD-1-S**

ELEVATION PATTERN

RMS Gain at Main Lobe **4.40 (6.43 dB)**

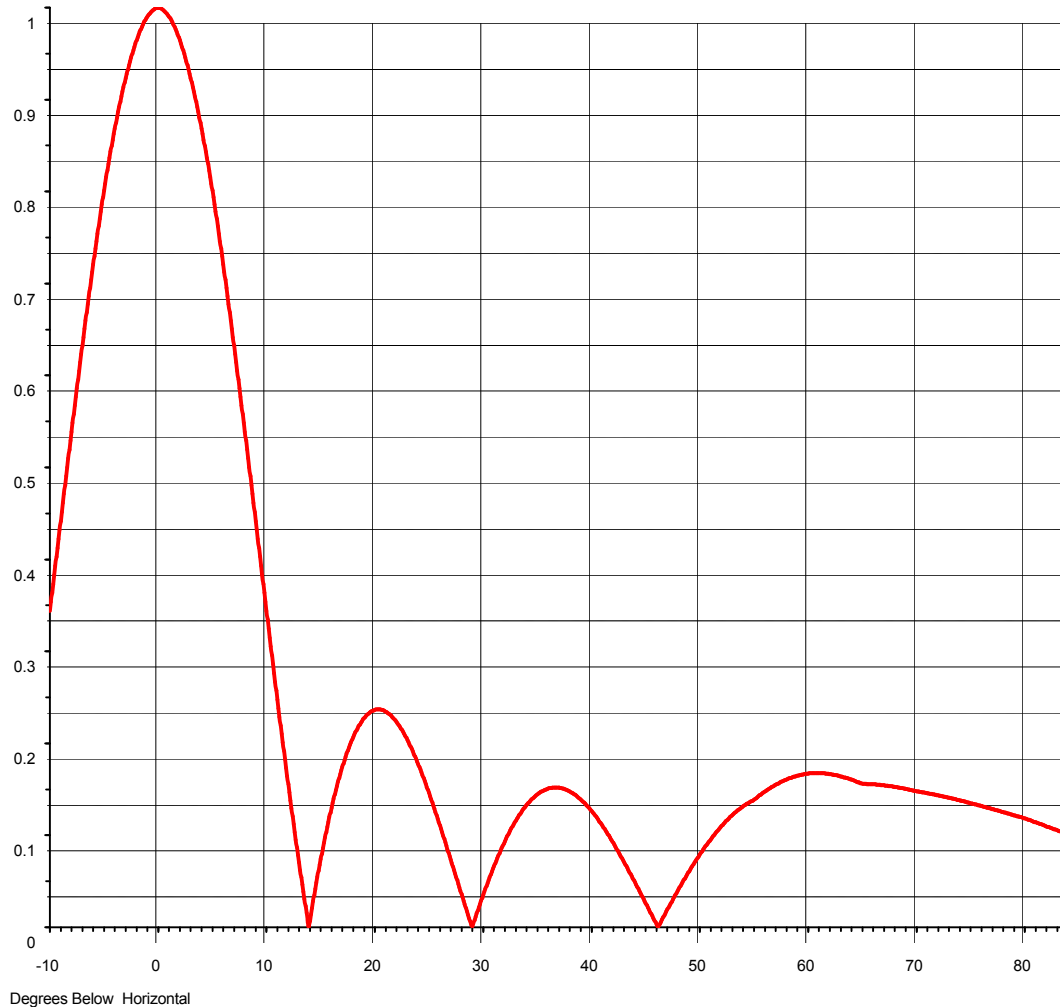
Beam Tilt **0.00 deg**

RMS Gain at Horizontal **4.40 (6.43 dB)**

Channel **Ch 7-13**

Calculated / Measured **Calculated**

Drawing # **02H044000**



Degrees Below Horizontal



Figure 2
Antenna Elevation Pattern
KPLO-TV Reliance, SD
Facility ID 41964
Ch. 13 40 kW 231 m

prepared for
Young Broadcasting of Sioux Falls Inc.
Debtor-In-Possession

February, 2010

Figure 3
Coverage Contour Comparison
KPLO-TV Reliance, SD
Facility ID 41964
Ch. 13 40 kW 231 m

prepared for
Young Broadcasting of Sioux Falls Inc.
Debtor-In-Possession

February, 2010

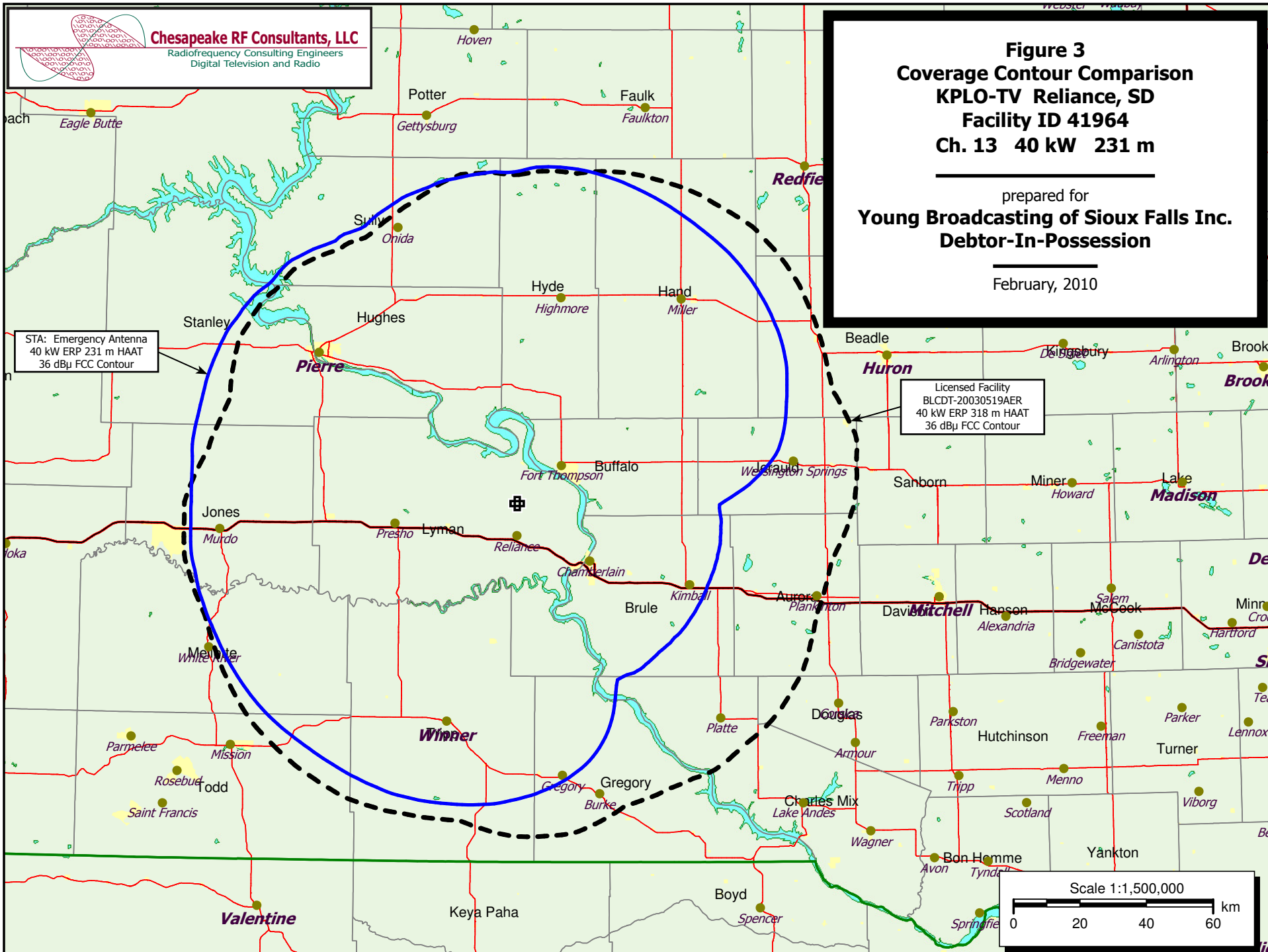


Table 2 KPLO-TV STA OET Bulletin 69 Interference Study

(worst-case scenarios shown page 1 of 18)

TW Census data selected 2000
Post Transition Data Base Selected /space/software/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-05-2010 Time: 14:08:21

Record Selected for Analysis

KPLO-TV USERRECORD-01 RELIANCE SD US
Channel 13 ERP 40. kW HAAT 231. m RCAMSL 00758 m
Latitude 043-57-57 Longitude 0099-36-11
Status APP Zone 2 Border
Dir Antenna Make usr Model DIE_THB-C2-713 Beam tilt N Ref Azimuth 300.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	40.000	232.1	99.6
45.0	21.141	283.1	97.4
90.0	0.303	217.0	60.7
135.0	0.369	208.0	61.7
180.0	12.100	210.4	88.7
225.0	37.056	212.0	97.2
270.0	29.998	236.9	97.8
315.0	35.006	245.6	99.7

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study

(worst-case scenarios shown page 2 of 18)

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
13	KPLO-TV	RELIANCE SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KRNE-TV	MERRIMAN NE	222.6	PLN	DTVPLN	-DTVP0382
12	KRNE-TV	MERRIMAN NE	222.6	CP MOD	BMPEDT	-20080620ABD
12	KTTM	HURON SD	105.7	LIC	BLCDT	-20081204AFD
12	KTTM	HURON SD	105.7	PLN	DTVPLN	-DTVP0394
13	KFME	FARGO ND	387.1	CP MOD	BMPEDT	-20081030ABJ
13	KFME	FARGO ND	387.2	PLN	DTVPLN	-DTVP0442
13	KTNE-TV	ALLIANCE NE	367.1	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	367.1	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	367.1	LIC	BLEDT	-20081126AMF
13	KHGI-TV	KEARNEY NE	372.6	CP	BPCDT	-20090730AAJ
13	KHGI-TV	KEARNEY NE	372.6	PLN	DTVPLN	-DTVP0445
13	KHGI-DR	KEARNEY NE	372.6	APP	BPRM	-20080715AFI
13	KHGI-CA	NORTH PLATTE NE	327.8	LIC	BLTTV	-19891010JS
13	KPSD-TV	EAGLE BUTTE SD	243.0	CP MOD	BMPEDT	-20080618ACN
13	KPSD-TV	EAGLE BUTTE SD	243.0	PLN	DTVPLN	-DTVP0461
13	KSFY-TV	SIOUX FALLS SD	251.3	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	251.3	PLN	DTVPLN	-DTVP0463

Analysis of Interference to Affected Station 1

Channel	Call	City/State	Application	Ref. No.
12	KRNE-TV	MERRIMAN NE	DTVPLN	-DTVP0382

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KSNK	MCCOOK NE	327.5	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	327.5	PLN	DTVPLN	-DTVP0381
12	KTTM	HURON SD	321.5	LIC	BLCDT	-20081204AFD
12	KTTM	HURON SD	321.5	PLN	DTVPLN	-DTVP0394
12	KCWY-DT	CASPER WY	375.4	CP	BPCDT	-20080619ABO
12	KCWY	CASPER WY	379.8	PLN	DTVPLN	-DTVP0405
13	KTNE-TV	ALLIANCE NE	144.5	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	144.6	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	144.5	LIC	BLEDT	-20081126AMF
13	KPLO-TV	RELIANCE SD	222.6	PLN	DTVPLN	-DTVP0462
13	KPLO-TV	RELIANCE SD	222.6	APP	USERRECORD-01	

Analysis of Interference to Affected Station 2

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 18)

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KRNE-TV	MERRIMAN NE	BMPEDT	-20080620ABD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KSNK	MCCOOK NE	327.5	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	327.5	PLN	DTVPLN	-DTVP0381
12	KTTM	HURON SD	321.6	LIC	BLCDT	-20081204AFD
12	KTTM	HURON SD	321.6	PLN	DTVPLN	-DTVP0394
12	KCWY-DT	CASPER WY	375.4	CP	BPCDT	-20080619ABO
12	KCWY	CASPER WY	379.7	PLN	DTVPLN	-DTVP0405
13	KTNE-TV	ALLIANCE NE	144.4	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	144.5	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	144.4	LIC	BLEDT	-20081126AMF
13	KPLO-TV	RELIANCE SD	222.6	PLN	DTVPLN	-DTVP0462
13	KPLO-TV	RELIANCE SD	222.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KTTM	HURON SD	BLCDT	-20081204AFD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KQSD-TV	LOWRY SD	178.4	CP MOD	BMPEDT	-20080618ACP
11	KQSD-TV	LOWRY SD	178.2	PLN	DTVPLN	-DTVP0336
11	KELO-TV	SIOUX FALLS SD	161.4	CP MOD	BMPEDT	-20080618ADT
11	KELO-TV	SIOUX FALLS SD	161.4	PLN	DTVPLN	-DTVP0337
12	KEYC-TV	MANKATO MN	313.3	PLN	DTVPLN	-DTVP0370
12	KEYC-TV	MANKATO MN	313.3	CP MOD	BMPEDT	-20080620AHS
12	KCCW-TV	WALKER MN	427.7	PLN	DTVPLN	-DTVP0371
12	KCCW-TV	WALKER MN	427.8	CP MOD	BMPEDT	-20080619AAY
12	KXMB-TV	BISMARCK ND	329.4	PLN	DTVPLN	-DTVP0378
12	KXMB-TV	BISMARCK ND	329.5	CP	BPCDT	-20080320ABC
12	KUON-TV	LINCOLN NE	372.2	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	372.2	PLN	DTVPLN	-DTVP0380
12	KRNE-TV	MERRIMAN NE	321.5	PLN	DTVPLN	-DTVP0382
12	KRNE-TV	MERRIMAN NE	321.6	CP MOD	BMPEDT	-20080620ABD
13	KPLO-TV	RELIANCE SD	105.7	PLN	DTVPLN	-DTVP0462
13	KSFY-TV	SIOUX FALLS SD	161.4	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	161.4	PLN	DTVPLN	-DTVP0463
13	KPLO-TV	RELIANCE SD	105.7	APP	USERRECORD-01	

Total scenarios = 16

Result key: 4

Scenario 4 Affected station 3
Before Analysis

Results for: 12A SD HURON BLCDT 20081204AFD LIC
HAAT 257.0 m, ATV ERP 12.6 kW
POPULATION AREA (sq km)

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 18)

within Noise Limited Contour	79153	26736.9
not affected by terrain losses	76419	25645.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	971	1179.5
lost to ATV IX only	971	1179.5
lost to all IX	971	1179.5

Potential Interfering Stations Included in above Scenario 4

12A MN MANKATO	DTVPLN	DTVP0370	PLN
12A ND BISMARCK	DTVPLN	DTVP0378	PLN
12A NE LINCOLN	DTVPLN	DTVP0380	PLN
12A NE MERRIMAN	BMPEDT	20080620ABD	CP
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 12A SD HURON BLCDT 20081204AFD LIC
HAAT 257.0 m, ATV ERP 12.6 kW
POPULATION AREA (sq km)

within Noise Limited Contour	79153	26736.9
not affected by terrain losses	76419	25645.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	699	847.6
lost to ATV IX only	699	847.6
lost to all IX	699	847.6

Potential Interfering Stations Included in above Scenario 4

12A MN MANKATO	DTVPLN	DTVP0370	PLN
12A ND BISMARCK	DTVPLN	DTVP0378	PLN
12A NE LINCOLN	DTVPLN	DTVP0380	PLN
12A NE MERRIMAN	BMPEDT	20080620ABD	CP
13A SD RELIANCE	USERRECORD01		APP

Percent new IX = -0.3605%

Worst case new IX -0.3605% Scenario 4

#####

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KTTM	HURON SD	DTVPLN	-DTVP0394

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KQSD-TV	LOWRY SD	178.4	CP MOD	BMPEDT	-20080618ACP
11	KQSD-TV	LOWRY SD	178.2	PLN	DTVPLN	-DTVP0336
11	KELO-TV	SIOUX FALLS SD	161.4	CP MOD	BMPEDT	-20080618ADT
11	KELO-TV	SIOUX FALLS SD	161.4	PLN	DTVPLN	-DTVP0337
12	KEYC-TV	MANKATO MN	313.3	PLN	DTVPLN	-DTVP0370
12	KEYC-TV	MANKATO MN	313.3	CP MOD	BMPEDT	-20080620AHS
12	KCCW-TV	WALKER MN	427.7	PLN	DTVPLN	-DTVP0371
12	KCCW-TV	WALKER MN	427.8	CP MOD	BMPEDT	-20080619AAY
12	KXMB-TV	BISMARCK ND	329.4	PLN	DTVPLN	-DTVP0378
12	KXMB-TV	BISMARCK ND	329.5	CP	BPCDT	-20080320ABC

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study

(worst-case scenarios shown page 5 of 18)

12	KUON-TV	LINCOLN NE	372.2	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	372.2	PLN	DTVPLN	-DTVP0380
12	KRNE-TV	MERRIMAN NE	321.5	PLN	DTVPLN	-DTVP0382
12	KRNE-TV	MERRIMAN NE	321.6	CP MOD	BMPEDT	-20080620ABD
13	KPLO-TV	RELIANCE SD	105.7	PLN	DTVPLN	-DTVP0462
13	KSFY-TV	SIOUX FALLS SD	161.4	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	161.4	PLN	DTVPLN	-DTVP0463
13	KPLO-TV	RELIANCE SD	105.7	APP	USERRECORD-01	

Total scenarios = 16

Result key: 20

Scenario 4 Affected station 4
Before Analysis

Results for: 12A SD HURON DTVPLN DTVP0394 PLN

HAAT 259.0 m, ATV ERP 13.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	81951	26916.9
not affected by terrain losses	78202	25797.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	998	1187.5
lost to ATV IX only	998	1187.5
lost to all IX	998	1187.5

Potential Interfering Stations Included in above Scenario 4

12A MN MANKATO	DTVPLN	DTVP0370	PLN
12A ND BISMARCK	DTVPLN	DTVP0378	PLN
12A NE LINCOLN	DTVPLN	DTVP0380	PLN
12A NE MERRIMAN	BMPEDT	20080620ABD	CP
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 12A SD HURON DTVPLN DTVP0394 PLN

HAAT 259.0 m, ATV ERP 13.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	81951	26916.9
not affected by terrain losses	78202	25797.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	736	827.7
lost to ATV IX only	736	827.7
lost to all IX	736	827.7

Potential Interfering Stations Included in above Scenario 4

12A MN MANKATO	DTVPLN	DTVP0370	PLN
12A ND BISMARCK	DTVPLN	DTVP0378	PLN
12A NE LINCOLN	DTVPLN	DTVP0380	PLN
12A NE MERRIMAN	BMPEDT	20080620ABD	CP
13A SD RELIANCE	USERRECORD01	APP	

Percent new IX = -0.3394%

Worst case new IX -0.3394% Scenario 4

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Analysis of Interference to Affected Station 5

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study

(worst-case scenarios shown page 6 of 18)

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KFME	FARGO ND	BMPEDT	-20081030ABJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KCCW-TV	WALKER MN	207.8	PLN	DTVPLN	-DTVP0371
12	KCCW-TV	WALKER MN	207.9	CP MOD	BMPEDT	-20080619AAY
12	KNRR	PEMBINA ND	221.0	CP	BPCDT	-20080520ACJ
12	KNRR	PEMBINA ND	221.0	PLN	DTVPLN	-DTVP0379
13	WIRT	HIBBING MN	322.8	PLN	DTVPLN	-DTVP0437
13	WIRT-DT	HIBBING MN	322.8	CP MOD	BMPEDT	-20080620ABW
13	KXMC-TV	MINOT ND	331.9	CP	BPCDT	-20080320AEJ
13	KXMC-TV	MINOT ND	331.8	PLN	DTVPLN	-DTVP0443
13	KPLO-TV	RELIANCE SD	387.1	PLN	DTVPLN	-DTVP0462
13	KSFY-TV	SIOUX FALLS SD	391.8	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	391.8	PLN	DTVPLN	-DTVP0463
13	KPLO-TV	RELIANCE SD	387.1	APP	USERRECORD-01	

Total scenarios = 4

Result key: 33

Scenario 1 Affected station 5
Before Analysis

Results for: 13A ND FARGO BMPEDT 20081030ABJ CP

HAAT 342.0 m, ATV ERP 56.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	360388	37679.1
not affected by terrain losses	359507	37410.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	256	256.9
lost to ATV IX only	256	256.9
lost to all IX	256	256.9

Potential Interfering Stations Included in above Scenario 1

13A MN HIBBING	DTVPLN	DTVP0437	PLN
13A ND MINOT	BPCDT	20080320AEJ	CP
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 13A ND FARGO BMPEDT 20081030ABJ CP

HAAT 342.0 m, ATV ERP 56.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	360388	37679.1
not affected by terrain losses	359507	37410.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	256	256.9
lost to ATV IX only	256	256.9
lost to all IX	256	256.9

Potential Interfering Stations Included in above Scenario 1

13A MN HIBBING	DTVPLN	DTVP0437	PLN
13A ND MINOT	BPCDT	20080320AEJ	CP
13A SD RELIANCE	USERRECORD01	APP	

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 18)

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KFME	FARGO ND	DTVPLN -DTVPO442

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KCCW-TV	WALKER MN	207.7	PLN	DTVPLN -DTVPO371
12	KCCW-TV	WALKER MN	207.9	CP MOD	BMPEDT -20080619AAY
12	KNRR	PEMBINA ND	220.9	CP	BPCDT -20080520ACJ
12	KNRR	PEMBINA ND	220.9	PLN	DTVPLN -DTVPO379
13	WIRT	HIBBING MN	322.7	PLN	DTVPLN -DTVPO437
13	WIRT-DT	HIBBING MN	322.7	CP MOD	BMPEDT -20080620ABW
13	KXMC-TV	MINOT ND	331.9	CP	BPCDT -20080320AEJ
13	KXMC-TV	MINOT ND	331.9	PLN	DTVPLN -DTVPO443
13	KPLO-TV	RELIANCE SD	387.2	PLN	DTVPLN -DTVPO462
13	KSFY-TV	STOUX FALLS SD	391.8	CP	BPCDT -20080408AEO
13	KSFY-TV	STOUX FALLS SD	391.8	PLN	DTVPLN -DTVPO463
13	KPLO-TV	RELIANCE SD	387.2	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KTNE-TV	ALLIANCE NE	BMPEDT -20080620AJD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KRNE-TV	MERRIMAN NE	144.5	PLN	DTVPLN -DTVPO382
12	KRNE-TV	MERRIMAN NE	144.4	CP MOD	BMPEDT -20080620ABD
13	KBDI-TV	BROOMFIELD CO	316.0	CP MOD	BMPEDT -20080410ABS
13	KBDI-TV	BROOMFIELD CO	316.0	PLN	DTVPLN -DTVPO414
13	KHGI-TV	KEARNEY NE	373.8	CP	BPCDT -20090730AAJ
13	KHGI-TV	KEARNEY NE	373.8	PLN	DTVPLN -DTVPO445
13	KHGI-DR	KEARNEY NE	373.8	APP	BPRM -20080715AFI
13	KPSD-TV	EAGLE BUTTE SD	362.8	CP MOD	BMPEDT -20080618ACN
13	KPSD-TV	EAGLE BUTTE SD	363.0	PLN	DTVPLN -DTVPO461
13	KPLO-TV	RELIANCE SD	367.1	PLN	DTVPLN -DTVPO462
13	KPLO-TV	RELIANCE SD	367.1	APP	USERRECORD-01

Total scenarios = 8

Result key: 40

Scenario 4 Affected station 7

Before Analysis

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 8 of 18)

Results for: 13A NE ALLIANCE BMPEDT 20080620AJD CP
HAAT 466.0 m, ATV ERP 27.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	101830	40320.1
not affected by terrain losses	95967	37310.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2026	2434.6
lost to ATV IX only	2026	2434.6
lost to all IX	2026	2434.6

Potential Interfering Stations Included in above Scenario 4

12A NE MERRIMAN	DTVPLN	DTVPO382	PLN
13A CO BROOMFIELD	DTVPLN	DTVPO414	PLN
13A SD EAGLE BUTTE	DTVPLN	DTVPO461	PLN
13A SD RELIANCE	DTVPLN	DTVPO462	PLN

After Analysis

Results for: 13A NE ALLIANCE BMPEDT 20080620AJD CP
HAAT 466.0 m, ATV ERP 27.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	101830	40320.1
not affected by terrain losses	95967	37310.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2022	2422.6
lost to ATV IX only	2022	2422.6
lost to all IX	2022	2422.6

Potential Interfering Stations Included in above Scenario 4

12A NE MERRIMAN	DTVPLN	DTVPO382	PLN
13A CO BROOMFIELD	DTVPLN	DTVPO414	PLN
13A SD EAGLE BUTTE	DTVPLN	DTVPO461	PLN
13A SD RELIANCE	USERRECORD01		APP

Percent new IX = -0.0043%

Worst case new IX -0.0043% Scenario 4

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KTNE-TV	ALLIANCE NE	DTVPLN -DTVPO444

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KRNE-TV	MERRIMAN NE	144.6	PLN	DTVPLN -DTVPO382
12	KRNE-TV	MERRIMAN NE	144.5	CP MOD	BMPEDT -20080620ABD
13	KBDI-TV	BROOMFIELD CO	315.9	CP MOD	BMPEDT -20080410ABS
13	KBDI-TV	BROOMFIELD CO	315.9	PLN	DTVPLN -DTVPO414
13	KHGI-TV	KEARNEY NE	373.7	CP	BPCDT -20090730AAJ
13	KHGI-TV	KEARNEY NE	373.7	PLN	DTVPLN -DTVPO445
13	KHGI-DR	KEARNEY NE	373.7	APP	BPRM -20080715AFI
13	KPSD-TV	EAGLE BUTTE SD	362.9	CP MOD	BMPEDT -20080618ACN
13	KPSD-TV	EAGLE BUTTE SD	363.1	PLN	DTVPLN -DTVPO461

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study

(worst-case scenarios shown page 9 of 18)

13	KPLO-TV	RELIANCE SD	367.1	PLN	DTVPLN	-DTVP0462
13	KPLO-TV	RELIANCE SD	367.1	APP	USERRECORD-01	

Total scenarios = 8

Result key: 45
Scenario 1 Affected station 8
Before Analysis

Results for: 13A NE ALLIANCE	DTVPLN	DTVP0444	PLN
HAAT 469.0 m, ATV ERP 20.9 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	93412	37901.8	
not affected by terrain losses	90447	35362.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	1326	2230.0	
lost to ATV IX only	1326	2230.0	
lost to all IX	1326	2230.0	

Potential Interfering Stations Included in above Scenario 1

12A NE MERRIMAN	DTVPLN	DTVP0382	PLN
13A CO BROOMFIELD	BMPEDT	20080410ABS	CP
13A SD EAGLE BUTTE	BMPEDT	20080618ACN	CP
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 13A NE ALLIANCE	DTVPLN	DTVP0444	PLN
HAAT 469.0 m, ATV ERP 20.9 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	93412	37901.8	
not affected by terrain losses	90447	35362.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	1326	2222.0	
lost to ATV IX only	1326	2222.0	
lost to all IX	1326	2222.0	

Potential Interfering Stations Included in above Scenario 1

12A NE MERRIMAN	DTVPLN	DTVP0382	PLN
13A CO BROOMFIELD	BMPEDT	20080410ABS	CP
13A SD EAGLE BUTTE	BMPEDT	20080618ACN	CP
13A SD RELIANCE	USERRECORD01	APP	

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 9

Analysis of current record			
Channel	Call	City/State	Application Ref. No.
13	KTNE-TV	ALLIANCE NE	BLEDT -20081126AMF

Stations Potentially Affecting This Station

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study

(worst-case scenarios shown page 10 of 18)

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KRNE-TV	MERRIMAN NE	144.5	PLN	DTVPLN	-DTVP0382
12	KRNE-TV	MERRIMAN NE	144.4	CP MOD	BMPEDT	-20080620ABD
13	KBDI-TV	BROOMFIELD CO	316.0	CP MOD	BMPEDT	-20080410ABS
13	KBDI-TV	BROOMFIELD CO	316.0	PLN	DTVPLN	-DTVP0414
13	KHGI-TV	KEARNEY NE	373.8	CP	BPCDT	-20090730AAJ
13	KHGI-TV	KEARNEY NE	373.8	PLN	DTVPLN	-DTVP0445
13	KHGI-DR	KEARNEY NE	373.8	APP	BPRM	-20080715AFI
13	KPSD-TV	EAGLE BUTTE SD	362.8	CP MOD	BMPEDT	-20080618ACN
13	KPSD-TV	EAGLE BUTTE SD	363.0	PLN	DTVPLN	-DTVP0461
13	KPLO-TV	RELIANCE SD	367.1	PLN	DTVPLN	-DTVP0462
13	KPLO-TV	RELIANCE SD	367.1	APP	USERRECORD-01	

Total scenarios = 8

Result key: 53
Scenario 1 Affected station 9
Before Analysis

Results for: 13A NE ALLIANCE	BLEDT	20081126AMF	LIC
HAAT 462.0 m, ATV ERP 17.5 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	92698	37408.2	
not affected by terrain losses	89835	34977.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	1148	2113.3	
lost to ATV IX only	1148	2113.3	
lost to all IX	1148	2113.3	

Potential Interfering Stations Included in above Scenario 1

12A NE MERRIMAN	DTVPLN	DTVP0382	PLN
13A CO BROOMFIELD	BMPEDT	20080410ABS	CP
13A NE KEARNEY	BPCDT	20090730AAJ	CP
13A SD EAGLE BUTTE	BMPEDT	20080618ACN	CP
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 13A NE ALLIANCE	BLEDT	20081126AMF	LIC
HAAT 462.0 m, ATV ERP 17.5 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	92698	37408.2	
not affected by terrain losses	89835	34977.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	1148	2097.2	
lost to ATV IX only	1148	2097.2	
lost to all IX	1148	2097.2	

Potential Interfering Stations Included in above Scenario 1

12A NE MERRIMAN	DTVPLN	DTVP0382	PLN
13A CO BROOMFIELD	BMPEDT	20080410ABS	CP
13A NE KEARNEY	BPCDT	20090730AAJ	CP
13A SD EAGLE BUTTE	BMPEDT	20080618ACN	CP
13A SD RELIANCE	USERRECORD01	APP	

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 11 of 18)

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Analysis of Interference to Affected Station 10

Analysis of current record
Channel Call City/State Application Ref. No.
13 KHGI-TV KEARNEY NE BPCDT -20090730AAJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUON-TV	LINCOLN NE	209.6	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	209.6	PLN	DTVPLN	-DTVP0380
12	KSNK	MCCOOK NE	180.7	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	180.7	PLN	DTVPLN	-DTVP0381
13	KUPK-TV	GARDEN CITY KS	368.5	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	368.6	PLN	DTVPLN	-DTVP0427
13	WIBW-TV	TOPEKA KS	302.6	CP	BPCDT	-20090629ADA
13	WIBW-TV	TOPEKA KS	302.6	PLN	DTVPLN	-DTVP0429
13	KTNE-TV	ALLIANCE NE	373.8	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	373.7	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	373.8	LIC	BLEDT	-20081126AMF
13	KHGI-DR	KEARNEY NE	0.0	APP	BPRM	-20080715AFI
13	KPLO-TV	RELIANCE SD	372.6	PLN	DTVPLN	-DTVP0462
13	KSFY-TV	SIOUX FALLS SD	371.6	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	371.6	PLN	DTVPLN	-DTVP0463
13	KPLO-TV	RELIANCE SD	372.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record
Channel Call City/State Application Ref. No.
13 KHGI-TV KEARNEY NE DTVPLN -DTVP0445

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUON-TV	LINCOLN NE	209.6	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	209.6	PLN	DTVPLN	-DTVP0380
12	KSNK	MCCOOK NE	180.7	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	180.7	PLN	DTVPLN	-DTVP0381
13	KUPK-TV	GARDEN CITY KS	368.5	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	368.6	PLN	DTVPLN	-DTVP0427
13	WIBW-TV	TOPEKA KS	302.6	CP	BPCDT	-20090629ADA
13	WIBW-TV	TOPEKA KS	302.6	PLN	DTVPLN	-DTVP0429
13	KTNE-TV	ALLIANCE NE	373.8	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	373.7	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	373.8	LIC	BLEDT	-20081126AMF
13	KHGI-DR	KEARNEY NE	0.0	APP	BPRM	-20080715AFI
13	KPLO-TV	RELIANCE SD	372.6	PLN	DTVPLN	-DTVP0462
13	KSFY-TV	SIOUX FALLS SD	371.6	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	371.6	PLN	DTVPLN	-DTVP0463
13	KPLO-TV	RELIANCE SD	372.6	APP	USERRECORD-01	

Proposal causes no interference

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 12 of 18)

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Analysis of Interference to Affected Station 12

Analysis of current record
Channel Call City/State Application Ref. No.
13 KHGI-DR KEARNEY NE BPRM -20080715AFI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUON-TV	LINCOLN NE	209.6	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	209.6	PLN	DTVPLN	-DTVP0380
12	KSNK	MCCOOK NE	180.7	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	180.7	PLN	DTVPLN	-DTVP0381
13	KUPK-TV	GARDEN CITY KS	368.5	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	368.6	PLN	DTVPLN	-DTVP0427
13	WIBW-TV	TOPEKA KS	302.6	CP	BPCDT	-20090629ADA
13	WIBW-TV	TOPEKA KS	302.6	PLN	DTVPLN	-DTVP0429
13	KTNE-TV	ALLIANCE NE	373.8	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	373.7	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	373.8	LIC	BLEDT	-20081126AMF
13	KHGI-TV	KEARNEY NE	0.0	CP	BPCDT	-20090730AAJ
13	KHGI-TV	KEARNEY NE	0.0	PLN	DTVPLN	-DTVP0445
13	KPLO-TV	RELIANCE SD	372.6	PLN	DTVPLN	-DTVP0462
13	KSFY-TV	SIOUX FALLS SD	371.6	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	371.6	PLN	DTVPLN	-DTVP0463
13	KPLO-TV	RELIANCE SD	372.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 13

Analysis of current record
Channel Call City/State Application Ref. No.
13 KHGI-CA NORTH PLATTE NE BLTTV -19891010JS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	KUPK-TV	GARDEN CITY KS	388.1	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	388.2	PLN	DTVPLN	-DTVP0427
13	KTNE-TV	ALLIANCE NE	206.4	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	206.4	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	206.4	LIC	BLEDT	-20081126AMF
13	KHGI-TV	KEARNEY NE	167.7	CP	BPCDT	-20090730AAJ
13	KHGI-TV	KEARNEY NE	167.7	PLN	DTVPLN	-DTVP0445
13	KHGI-DR	KEARNEY NE	167.7	APP	BPRM	-20080715AFI
13	KPLO-TV	RELIANCE SD	327.8	PLN	DTVPLN	-DTVP0462
13	KPLO-TV	RELIANCE SD	327.8	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 13 of 18)

Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KPSD-TV	EAGLE BUTTE SD	BMPEDT	-20080618ACN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KXMB-TV	BISMARCK ND	204.4	PLN	DTVPLN	-DTVP0378
12	KXMB-TV	BISMARCK ND	204.7	CP	BPCDT	-20080320ABC
13	KXMC-TV	MINOT ND	340.4	CP	BPCDT	-20080320AEJ
13	KXMC-TV	MINOT ND	340.4	PLN	DTVPLN	-DTVP0443
13	KTNE-TV	ALLIANCE NE	362.8	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	362.9	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	362.8	LIC	BLEDT	-20081126AMF
13	KPLO-TV	RELIANCE SD	243.0	PLN	DTVPLN	-DTVP0462
13	KSGW-TV	SHERIDAN WY	385.4	PLN	DTVPLN	-DTVP0480
13	KSGW-TV	SHERIDAN WY	385.4	LIC	BLCDT	-20051206AEI
13	KPLO-TV	RELIANCE SD	243.0	APP	USERRECORD-01	

Total scenarios = 12

Result key: 63
Scenario 3 Affected station 14
Before Analysis

Results for: 13A SD EAGLE BUTTE BMPEDT 20080618ACN CP
HAAT 516.0 m, ATV ERP 27.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20890	42490.9
not affected by terrain losses	19473	40123.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	683	1356.8
lost to ATV IX only	683	1356.8
lost to all IX	683	1356.8

Potential Interfering Stations Included in above Scenario 3

13A ND MINOT	BPCDT	20080320AEJ	CP
13A NE ALLIANCE	DTVPLN	DTVP0444	PLN
13A WY SHERIDAN	DTVPLN	DTVP0480	PLN
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 13A SD EAGLE BUTTE BMPEDT 20080618ACN CP
HAAT 516.0 m, ATV ERP 27.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20890	42490.9
not affected by terrain losses	19473	40123.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	775	1884.2
lost to ATV IX only	775	1884.2
lost to all IX	775	1884.2

Potential Interfering Stations Included in above Scenario 3

13A ND MINOT	BPCDT	20080320AEJ	CP
13A NE ALLIANCE	DTVPLN	DTVP0444	PLN
13A WY SHERIDAN	DTVPLN	DTVP0480	PLN

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 14 of 18)

13A SD RELIANCE USERRECORD01 APP

Percent new IX = 0.4896%

Worst case new IX 0.4896% Scenario 3

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KPSD-TV	EAGLE BUTTE SD	DTVPLN	-DTVP0461

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KXMB-TV	BISMARCK ND	204.2	PLN	DTVPLN	-DTVP0378
12	KXMB-TV	BISMARCK ND	204.4	CP	BPCDT	-20080320ABC
13	KXMC-TV	MINOT ND	340.2	CP	BPCDT	-20080320AEJ
13	KXMC-TV	MINOT ND	340.2	PLN	DTVPLN	-DTVP0443
13	KTNE-TV	ALLIANCE NE	363.0	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	363.1	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	363.0	LIC	BLEDT	-20081126AMF
13	KPLO-TV	RELIANCE SD	243.0	PLN	DTVPLN	-DTVP0462
13	KSGW-TV	SHERIDAN WY	385.6	PLN	DTVPLN	-DTVP0480
13	KSGW-TV	SHERIDAN WY	385.6	LIC	BLCDT	-20051206AEI
13	KPLO-TV	RELIANCE SD	243.0	APP	USERRECORD-01	

Total scenarios = 12

Result key: 73
Scenario 1 Affected station 15
Before Analysis

Results for: 13A SD EAGLE BUTTE DTVPLN DTVP0461 PLN
HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	578	1312.4
lost to ATV IX only	578	1312.4
lost to all IX	578	1312.4

Potential Interfering Stations Included in above Scenario 1

13A ND MINOT	BPCDT	20080320AEJ	CP
13A NE ALLIANCE	BMPEDT	20080620AJD	CP
13A WY SHERIDAN	DTVPLN	DTVP0480	PLN
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 13A SD EAGLE BUTTE DTVPLN DTVP0461 PLN
HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study

(worst-case scenarios shown page 15 of 18)

lost to NTSC IX	0	0.0
lost to additional IX by ATV	657	1787.4
lost to ATV IX only	657	1787.4
lost to all IX	657	1787.4

Potential Interfering Stations Included in above Scenario 1

13A ND MINOT	BPCDT	20080320AEJ	CP
13A NE ALLIANCE	BMPEDT	20080620AJD	CP
13A WY SHERIDAN	DTVPLN	DTVP0480	PLN
13A SD RELIANCE	USERRECORD01		APP

Percent new IX = 0.4270%

Worst case new IX 0.4270% Scenario 1

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KSFY-TV	SIOUX FALLS SD	BPCDT	-20080408AEO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KEYC-TV	MANKATO MN	176.8	PLN	DTVPLN	-DTVP0370
12	KEYC-TV	MANKATO MN	176.8	CP MOD	BMPEDT	-20080620AHS
12	KTTM	HURON SD	161.4	LIC	BLCDT	-20081204AFD
12	KTTM	HURON SD	161.4	PLN	DTVPLN	-DTVP0394
13	WHO-DT	DES MOINES IA	305.0	CP MOD	BMPEDT	-20080620AIM
13	WHO-TV	DES MOINES IA	303.5	PLN	DTVPLN	-DTVP0422
13	KFME	FARGO ND	391.8	CP MOD	BMPEDT	-20081030ABJ
13	KFME	FARGO ND	391.8	PLN	DTVPLN	-DTVP0442
13	KHGI-TV	KEARNEY NE	371.6	CP	BPCDT	-20090730AAJ
13	KHGI-TV	KEARNEY NE	371.6	PLN	DTVPLN	-DTVP0445
13	KHGI-DR	KEARNEY NE	371.6	APP	BPRM	-20080715AFI
13	KPLO-TV	RELIANCE SD	251.3	PLN	DTVPLN	-DTVP0462
13	KPLO-TV	RELIANCE SD	251.3	APP	USERRECORD-01	

Total scenarios = 96

Result key: 90

Scenario 6 Affected station 16
Before AnalysisResults for: 13A SD SIOUX FALLS BPCDT 20080408AEO CP
HAAT 610.0 m, ATV ERP 22.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	620447	45466.4
not affected by terrain losses	574971	43718.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	42060	2611.4
lost to ATV IX only	42060	2611.4
lost to all IX	42060	2611.4

Potential Interfering Stations Included in above Scenario 6

12A MN MANKATO DTVPLN DTVP0370 PLN

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study

(worst-case scenarios shown page 16 of 18)

12A SD HURON	BLCDT	20081204AFD	LIC
13A IA DES MOINES	DTVPLN	DTVP0422	PLN
13A ND FARGO	BMPEDT	20081030ABJ	CP
13A NE KEARNEY	DTVPLN	DTVP0445	PLN
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 13A SD SIOUX FALLS BPCDT 20080408AEO CP
HAAT 610.0 m, ATV ERP 22.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	620447	45466.4
not affected by terrain losses	574971	43718.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	38570	1447.7
lost to ATV IX only	38570	1447.7
lost to all IX	38570	1447.7

Potential Interfering Stations Included in above Scenario 6

12A MN MANKATO	DTVPLN	DTVP0370	PLN
12A SD HURON	BLCDT	20081204AFD	LIC
13A IA DES MOINES	DTVPLN	DTVP0422	PLN
13A ND FARGO	BMPEDT	20081030ABJ	CP
13A NE KEARNEY	DTVPLN	DTVP0445	PLN
13A SD RELIANCE	USERRECORD01		APP

Percent new IX = -0.6549%

Worst case new IX -0.6549% Scenario 6

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KSFY-TV	SIOUX FALLS SD	DTVPLN	-DTVP0463

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KEYC-TV	MANKATO MN	176.8	PLN	DTVPLN	-DTVP0370
12	KEYC-TV	MANKATO MN	176.8	CP MOD	BMPEDT	-20080620AHS
12	KTTM	HURON SD	161.4	LIC	BLCDT	-20081204AFD
12	KTTM	HURON SD	161.4	PLN	DTVPLN	-DTVP0394
13	WHO-DT	DES MOINES IA	305.0	CP MOD	BMPEDT	-20080620AIM
13	WHO-TV	DES MOINES IA	303.5	PLN	DTVPLN	-DTVP0422
13	KFME	FARGO ND	391.8	CP MOD	BMPEDT	-20081030ABJ
13	KFME	FARGO ND	391.8	PLN	DTVPLN	-DTVP0442
13	KHGI-TV	KEARNEY NE	371.6	CP	BPCDT	-20090730AAJ
13	KHGI-TV	KEARNEY NE	371.6	PLN	DTVPLN	-DTVP0445
13	KHGI-DR	KEARNEY NE	371.6	APP	BPRM	-20080715AFI
13	KPLO-TV	RELIANCE SD	251.3	PLN	DTVPLN	-DTVP0462
13	KPLO-TV	RELIANCE SD	251.3	APP	USERRECORD-01	

Total scenarios = 96

Result key: 185

Scenario 5 Affected station 17

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 17 of 18)

Before Analysis

Results for: 13A SD SIOUX FALLS DTVPLN DTVP0463 PLN
HAAT 610.0 m, ATV ERP 22.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	618464	45430.7
not affected by terrain losses	580385	43715.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	38538	2615.5
lost to ATV IX only	38538	2615.5
lost to all IX	38538	2615.5

Potential Interfering Stations Included in above Scenario 5

12A MN MANKATO	DTVPLN	DTVP0370	PLN
12A SD HURON	BLCDT	20081204AFD	LIC
13A IA DES MOINES	DTVPLN	DTVP0422	PLN
13A ND FARGO	BMPEDT	20081030ABJ	CP
13A NE KEARNEY	BPCDT	20090730AAJ	CP
13A SD RELIANCE	DTVPLN	DTVP0462	PLN

After Analysis

Results for: 13A SD SIOUX FALLS DTVPLN DTVP0463 PLN
HAAT 610.0 m, ATV ERP 22.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	618464	45430.7
not affected by terrain losses	580385	43715.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	35094	1439.7
lost to ATV IX only	35094	1439.7
lost to all IX	35094	1439.7

Potential Interfering Stations Included in above Scenario 5

12A MN MANKATO	DTVPLN	DTVP0370	PLN
12A SD HURON	BLCDT	20081204AFD	LIC
13A IA DES MOINES	DTVPLN	DTVP0422	PLN
13A ND FARGO	BMPEDT	20081030ABJ	CP
13A NE KEARNEY	BPCDT	20090730AAJ	CP
13A SD RELIANCE	USERRECORD01		APP

Percent new IX = -0.6356%

Worst case new IX -0.6356% Scenario 5

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KPLO-TV	RELIANCE SD	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KRNE-TV	MERRIMAN NE	222.6	PLN	DTVPLN -DTVP0382
12	KRNE-TV	MERRIMAN NE	222.6	CP MOD	BMPEDT -20080620ABD
12	KTTM	HURON SD	105.7	LIC	BLCDT -20081204AFD

Table 2 KPLO-TV STA OET Bulletin 69 Interference Study
(worst-case scenarios shown page 18 of 18)

12	KTTM	HURON SD	105.7	PLN	DTVPLN	-DTVP0394
13	KFME	FARGO ND	387.1	CP MOD	BMPEDT	-20081030ABJ
13	KFME	FARGO ND	387.2	PLN	DTVPLN	-DTVP0442
13	KTNE-TV	ALLIANCE NE	367.1	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	367.1	PLN	DTVPLN	-DTVP0444
13	KTNE-TV	ALLIANCE NE	367.1	LIC	BLCDT	-20081126AMF
13	KHGI-TV	KEARNEY NE	372.6	CP	BPCDT	-20090730AAJ
13	KHGI-TV	KEARNEY NE	372.6	PLN	DTVPLN	-DTVP0445
13	KHGI-DR	KEARNEY NE	372.6	APP	BPRM	-20080715AFI
13	KPSD-TV	EAGLE BUTTE SD	243.0	CP MOD	BMPEDT	-20080618ACN
13	KPSD-TV	EAGLE BUTTE SD	243.0	PLN	DTVPLN	-DTVP0461
13	KSFY-TV	SIOUX FALLS SD	251.3	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	251.3	PLN	DTVPLN	-DTVP0463

Total scenarios = 96

Result key: 277
Scenario 1 Affected station 18
Before Analysis

Results for: 13A SD RELIANCE USERRECORD01 APP
HAAT 231.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	46373	25417.4
not affected by terrain losses	45081	24290.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1462	1415.9
lost to ATV IX only	1462	1415.9
lost to all IX	1462	1415.9

Potential Interfering Stations Included in above Scenario 1

12A SD HURON	BLCDT	20081204AFD	LIC
13A ND FARGO	BMPEDT	20081030ABJ	CP
13A NE KEARNEY	BPCDT	20090730AAJ	CP
13A SD EAGLE BUTTE	BMPEDT	20080618ACN	CP
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP

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